

## Driver Installation Order & Summary Guide

This driver Installation Summary Guide provides detailed information for the following Viglen products. This guide provides information on Hardware ID and associated device driver required to successfully configure Microsoft® operating systems. Two sets of drivers are available:

**Full Driver Sets** – Contains full driver set for Automatic installation.

**INF Driver Package** – Contains drivers in extracted INF format for manual driver installation via Device Manager, or use with Microsoft® Deployment toolkit (MDT), Microsoft® System Centre Configuration Manager (SCCM).

Driver DVD: <b>WDXDCD64</b>	Motherboard: <b>DQ67SW, DQ67OW, DQ67EP</b>
Revision: <b>1.6</b> Release Date: <b>Nov 2013</b>	Viglen Part code: <b>PMP5W002, PMP0W002, PMPEP001</b>

### Intel Matrix Storage Manager Driver:

Bios SATA Controller Mode	Controller
AHCI	Intel® Desktop/Workstation/Server Express chipset AHCI Controller
RAID	Intel® Desktop/Workstation/Server Express chipset RAID Controller

### Unknown / Other Devices in Device Manager:

Hardware Devices Listed in device Manager	Hardware ID	Associated Driver	INF Drivers
<b>IDE ATA/ATPI Controllers</b>			
Standard AHCI 1.0 serial ATA Controller	VEN_8086&DEV_1C02	AHCI	Intel(R) Desktop Workstation Server Express Chipset SATA AHCI Controller
Intel(R) ICH8/ICH9R/ICH10/DO SATA RAID Controller	VEN_8086&DEV_2822	RAID	Intel(R) Desktop Workstation Server Express Chipset SATA/RAID Controller
<b>Other devices</b>			
Audio Device on High Definition Audio Bus	VEN_10EC&DEV_0888	Sound Driver	Realtek High Definition Audio
Audio Device on High Definition Audio Bus	VEN_8086&DEV_2805	VGA Driver	Intel(R) Display Audio
Ethernet Controller	VEN_8086&DEV_1502	LAN driver	Intel(R) 82579LM Gigabit Network Connection
PCI Serial port	VEN_8086&DEV_1C3D	Intel Management Engine	Intel(R) Active Management Technology - SOL
PCI Simple Communication Controller	VEN_8086&DEV_1C3A	Intel Management Engine	Intel(R) Management Engine Interface
SM BUS Controller	VEN_8086&DEV_1C22	Chipset	Intel(R) 6 Series C200 Series Chipset Family SMBus Controller - 1C22
Universal Serial BUS (USB) controller	VEN_1033&DEV_0194	USB3.0	Renesas Electronics USB 3.0 Host Controller
(Only appears under Vista and Windows 7) Unknown Device	NUSB3ROOT_HUB30&VID_1033&PID_0194	USB3.0	Renesas Electronics USB 3.0 Root Hub
(Only appears under Windows XP) Unknown Device	ACPI\PNP0C31\1	TPM	Winbond Trusted Platform Module 1.2_6.1.42.2035
Video Controller (VGA compatible)	VEN_8086&DEV_0112	VGA Driver	Intel(R) HD Graphics



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**Important:** When downloading drivers from Viglen FTP site, unzip them to a folder and make a note of the download path so that you can find them later.

**Note:** Not all driver updates require a restart. Even if you're not prompted, we always recommend restarting the system. The driver update process involves changes to the Windows registry and other important areas of your computer and restarting is a good way to confirm that updating drivers hasn't negatively impacted some other area of Windows.

<b>Windows 7 (32 &amp; 64Bit)</b>		<b>Driver/Utility</b>			
		<b>Executable File</b>		<b>Silent Switch</b>	<b>Comments</b>
<b>Installation order</b>		<b>Windows 7 32 Bit</b>	<b>Windows 7 64 Bit</b>		
<b>1</b>	Chipset:	INF_allIOS_9.4.0.1027.exe	INF_allIOS_9.4.0.1027.exe	setup -s	
<b>2</b>	Video: Intel® HD Graphics *	GFX_Win7_8_32_9.17.10.3062.exe	GFX_Win7_8_64_9.17.10.3062.exe	setup -s	
<b>3</b>	Audio: Realtek* ALC Audio	AUD_Win8.1_Win8_Win7_XP_6.0.1.7040	AUD_Win8.1_Win8_Win7_XP_6.0.1.7040	setup -s	
<b>4</b>	LAN: Intel(R) Gigabit	LAN_Intel_PROWin7_32_18.7	LAN_Intel_PROWin7_64_18.7.exe	setup -s	
<b>5</b>	AMT: Intel(R) Management Engine	MEI_allIOS_7.1.40.1161_5.0M_PV.exe	MEI_allIOS_7.1.40.1161_5.0M_PV.exe	setup -s	
<b>6</b>	USB3.0	USB3.0_allIOS_2.1.28.1_PV.exe	USB3.0_allIOS_2.1.28.1_PV.exe		
<b>7</b>	AHCI/RAID: Intel® Matrix Storage Manager	STOR_Win7_8_11.7.0.1013_f6flpy-x86 STOR_Win7_8_11.7.0.1013_PV	STOR_Win7_8_11.7.0.1013_f6flpy-x64 STOR_Win7_8_11.7.0.1013_PV	setup -s	

\* USB 3.0 driver is only required on Intel DQ67SW and DQ67EP Motherboards.

**INF Driver Package details:**

<b>Driver Description</b>	<b>Hardware ID</b>	<b>Class</b>	<b>Version</b>	<b>Date</b>
Intel® Desktop/Workstation/Server Express chipset AHCI Controller	VEN_8086&DEV_1C02	IDE ATA/ATPI Controllers	11.7.0.1013	19/11/2012
Intel® Desktop/Workstation/Server Express chipset RAID Controller	VEN_8086&DEV_2822	Storage controller	11.7.0.1013	19/11/2012
Intel® 6 Series/C200 Series chipset family SMBUS controller-1C22	VEN_8086&DEV_1C22	System Device	9.2.0.1035	25/07/2013
Intel® HD Graphics	VEN_8086&DEV_0112	Display adapters	9.17.10.3062	08/03/2013
Realtek High Definition Audio	VEN_10EC&DEV_0888	Sound, video and game controllers	6.0.1.7040	13/09/2013
Intel® Display Audio	VEN_8086&DEV_2805	Sound, video and game controllers	6.14.0.3097	19/06/2012
Intel® 82579LM Gigabit Network Connection	VEN_8086&DEV_1502	Network adapter	12.10.28.0	21/08/2013
Intel® Management Engine Interface	VEN_8086&DEV_1C3D	System Devices	7.1.21.11.34	22-09-2011
Intel® Active Management Technology-SOL	VEN_8086&DEV_1C3A	Ports (COM & LPT)	7.1.21.1154	19-01-2012
Renesas Electronics USB3.0 Root Hub	NUSB3\ROOT_HUB30&VID_1033 &PID_0194	Universal Serial Bus controllers	2.1.28.0	25-10-2011
Renesas Electronics USB3.0 Host Controller	VEN_1033&DEV_0194	Universal Serial Bus controllers	2.1.28.0	25-10-2011

**Windows Vista (32 & 64Bit)**

Installation order		Driver/Utility		Silent Switch	Comments
		Executable File			
		Windows Vista 32 Bit	Windows Vista 64Bit		
1	Chipset:	INF_allIOS_9.4.0.1027.exe	INF_allIOS_9.4.0.1027.exe	setup -s	
2	Video: Intel® HD Graphics *	GFX_Vista_32_8.15.10.2559	GFX_Vista_64_8.15.10.2559	setup -s	
3	Audio: Realtek* ALC Audio	AUD_Win8.1_Win8_Win7_XP_6.0.1.7040	AUD_Win8.1_Win8_Win7_XP_6.0.1.7040	setup -s	
4	LAN: Intel(R) Gigabit	LAN_Intel_PROWinVista_32_18.4	LAN_Intel_PROWinVista_64_18.4	setup -s	
5	AMT: Intel(R) Management Engine	MEI_allIOS_7.1.40.1161_5.0M_PV.exe	MEI_allIOS_7.1.40.1161_5.0M_PV.exe	setup -s	
6	USB3.0*	USB3.0_allIOS_2.1.28.1_PV.exe	USB3.0_allIOS_2.1.28.1_PV.exe	setup -s	
7	AHCI/RAID: Intel® Matrix Storage Manager	f6flpy-x86_Win7_XP_11.1.0.1006 STOR_Win7_XP_11.1.0.1006	f6flpy-x64_Win7_XP_11.1.0.1006 STOR_Win7_XP_11.1.0.1006		

**INF Driver Package details:**

Driver Description	Hardware ID	Class	Version	Date
Intel® Desktop/Workstation/Server Express chipset AHCI Controller	VEN_8086&DEV_1C02	IDE ATA/ATPI Controllers		
Intel® Desktop/Workstation/Server Express chipset RAID Controller	VEN_8086&DEV_2822	Storage controller		
Intel® 6 Series/C200 Series chipset family SMBUS controller-1C22	VEN_8086&DEV_1C22	System Device	9.2.0.1035	25/07/2013
Intel® HD Graphics	VEN_8086&DEV_0112	Display adapters	8.15.10.2559	10/21/2011
Realtek High Definition Audio	VEN_10EC&DEV_0888	Sound, video and game controllers	6.0.1.7040	13/09/2013
Intel® Display Audio	VEN_8086&DEV_2805	Sound, video and game controllers	6.14.0.3097	19/06/2012
Intel® 82579LM Gigabit Network Connection	VEN_8086&DEV_1502	Network adapter	12.6.45.0	05/15/2013
Intel® Management Engine Interface	VEN_8086&DEV_1C3D	System Devices	7.1.21.11.34	22-09-2011
Intel® Active Management Technology-SOL	VEN_8086&DEV_1C3A	Ports (COM & LPT)	7.1.21.1154	19-01-2012
Renesas Electronics USB3.0 Root Hub*	NUSB3\ROOT_HUB30&VID_1033 &PID_0194	Universal Serial Bus controllers	2.1.28.0	25-10-2011
Renesas Electronics USB3.0 Host Controller*	VEN_1033&DEV_0194	Universal Serial Bus controllers	2.1.28.0	25-10-2011

\* USB 3.0 driver is only required on system configured Intel DQ67SW or DQ67EP Motherboard.

**Windows XP (32 & 64Bit)**

Installation order		Driver/Utility		Silent Switch	Comments
		Executable File			
		Windows XP 32 Bit	Windows XP 64Bit		
1	Chipset:	INF_allIOS_9.4.0.1027.exe	INF_allIOS_9.4.0.1027.exe	setup -s	
2	Video: Intel® HD Graphics **	GFX_XP32_6.14.10.5437	GFX_XP64_6.14.10.5437	setup -s	
3	Audio: Realtek* ALC Audio	AUD_Win8.1_Win8_Win7_XP_6.0.1.7040	AUD_Win8.1_Win8_Win7_XP_6.0.1.7040	setup -s	
4	LAN: Intel(R) Gigabit	LAN_Intel_PROWinXP_32_18.3	LAN_Intel_PROWinXP_64_18.3	setup -s	
5	AMT: Intel(R) Management Engine	MEI_allIOS_7.1.40.1161_5.0M_PV.exe	MEI_allIOS_7.1.40.1161_5.0M_PV.exe	setup -s	
6	USB3.0*	USB3.0_allIOS_2.1.28.1_PV.exe	USB3.0_allIOS_2.1.28.1_PV.exe	setup -s	
7	TPM	TPM_allXP_6.1.42.2035_PV_Nuvoton	TPM_allXP_6.1.42.2035_PV_Nuvoton		
8	AHCI/RAID: Intel® Matrix Storage Manager	STOR_Win7_XP_11.1.0.1006.exe f6flpy-x86_Win7_XP_11.1.0.1006.zip	STOR_Win7_XP_11.1.0.1006.exe f6flpy-x64_Win7_XP_11.1.0.1006.zip		

\* USB 3.0 driver is only required on system configured Intel DQ67SW or DQ67EP Motherboard.

\*\*Before installing VGA drivers, Microsoft .Net 3.5 or higher version must be installed. Microsoft .Net can be downloaded from following URL: <http://www.microsoft.com/net/>. Microsoft.net 3.5 and 4.0 is also available on the Driver DVD under "Others" Folder

**INF Driver Package details:**

Driver Description	Hardware ID	Class	Version	Date
Intel® Desktop/Workstation/Server Express chipset AHCI Controller	VEN_8086&DEV_1C02	IDE ATA/ATPI Controllers	11.7.0.1013	19/11/2012
Intel® Desktop/Workstation/Server Express chipset RAID Controller	VEN_8086&DEV_2822	IDE ATA/ATPI Controllers	11.7.0.1013	19/11/2012
Intel® 6 Series/C200 Series chipset family SMBUS controller-1C22	VEN_8086&DEV_1C22	System Device	9.2.0.1035	25/07/2013
Intel® HD Graphics	VEN_8086&DEV_0112	Display adapters	6.14.10.5437	02/04/2013
Realtek High Definition Audio	VEN_10EC&DEV_0888	Sound, video and game controllers	6.0.1.7040	13/09/2013
Intel® 82579LM Gigabit Network Connection	VEN_8086&DEV_1502	Network adapter	12.6.45.0	02/22/2013
Intel® Management Engine Interface	VEN_8086&DEV_1C3D	System Devices	7.1.21.11.34	22-09-2011
Intel® Active Management Technology-SOL	VEN_8086&DEV_1C3A	Ports (COM & LPT)	7.1.21.1154	19-01-2012
Renesas Electronics USB3.0 Root Hub*	NUSB3\ROOT_HUB30&VID_1033 &PID_0194	Universal Serial Bus controllers	2.1.28.0	25-10-2011
Renesas Electronics USB3.0 Host Controller*	VEN_1033&DEV_0194	Universal Serial Bus controllers	2.1.28.0	25-10-2011
Winbond Trusted Platform Module 1.2	ACPI\PNP0C31\1	System Devices	6.1.42.2035	10-02-2008



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Please note Windows 8 drivers are provided “as is state”. Motherboard does not support all windows 8 features (i.e. secure boot).

Windows 8 (32 & 64Bit)		Driver/Utility			
		Executable File		Silent Switch	Comments
		Windows 8 32 Bit	Windows 8 64 Bit		
<b>1</b>	Chipset:	INF_allOS_9.4.0.1027.exe	INF_allOS_9.4.0.1027.exe	setup -s	
<b>2</b>	Video: Intel® HD Graphics *	GFX_Win7_8_32_9.17.10.3062.exe	GFX_Win7_8_64_9.17.10.3062.exe	setup -s	
<b>3</b>	Audio: Realtek* ALC Audio	AUD_Win8.1_Win8_Win7_XP_6.0.1.7040	AUD_Win8.1_Win8_Win7_XP_6.0.1.7040	setup -s	
<b>4</b>	LAN: Intel(R) Gigabit	LAN_Intel_PROWin8_32_18.7	LAN_Intel_PROWin8_64_18.7	setup -s	
<b>5</b>	AMT: Intel(R) Management Engine	MEI_allOS_7.1.40.1161_5.0M_PV.exe	MEI_allOS_7.1.40.1161_5.0M_PV.exe	setup -s	
<b>6</b>	USB3.0	USB3.0_allOS_2.1.28.1_PV.exe	USB3.0_allOS_2.1.28.1_PV.exe		
<b>7</b>	AHCI/RAID: Intel® Matrix Storage Manager	STOR_Win7_8_11.7.0.1013_f6flpy-x86 STOR_Win7_8_11.7.0.1013_PV	STOR_Win7_8_11.7.0.1013_f6flpy-x64 STOR_Win7_8_11.7.0.1013_PV	setup -s	

**INF Driver Package details:**

Driver Description	Hardware ID	Class	Version	Date
Intel® Desktop/Workstation/Server Express chipset AHCI Controller	VEN_8086&DEV_1C02	IDE ATA/ATPI Controllers	11.7.0.1013	19/11/2012
Intel® Desktop/Workstation/Server Express chipset RAID Controller	VEN_8086&DEV_2822	Storage controller	11.7.0.1013	19/11/2012
Intel® 6 Series/C200 Series chipset family SMBUS controller-1C22	VEN_8086&DEV_1C22	System Device	9.2.0.1035	25/07/2013
Intel® HD Graphics	VEN_8086&DEV_0112	Display adapters	9.17.10.3062	08/03/2013
Realtek High Definition Audio	VEN_10EC&DEV_0888	Sound, video and game controllers	6.0.1.7040	13/09/2013
Intel® Display Audio	VEN_8086&DEV_2805	Sound, video and game controllers	6.14.0.3097	19/06/2012
Intel® 82579LM Gigabit Network Connection	VEN_8086&DEV_1502	Network adapter	12.10.28.0	21/08/2013
Intel® Management Engine Interface	VEN_8086&DEV_1C3D	System Devices	7.1.21.11.34	22-09-2011
Intel® Active Management Technology-SOL	VEN_8086&DEV_1C3A	Ports (COM & LPT)	7.1.21.1154	19-01-2012

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### Other Driver/Software

The following table lists WinPE, NDIS2 Lan drivers and Microsoft update/patch list.

Driver/Utility		
Folder Name	Win PE LAN driver	NDIS2_DOS
Win PE_NDIS2_LAN Driver	LAN_Intel_Vista-32Bit 12.6.45.0	DOS_LAN_NDIS2
	LAN_Intel_Vista-64Bit 12.6.45.0	
	LAN_Intel_Win 7-32Bit_12.10.28.0	
	LAN_Intel_Win 7-64Bit_12.10.28.0	
	LAN_Intel_Win 8-32Bit_12.10.28.0	
	LAN_Intel_XP-32Bit_12.6.45.0	
	LAN_Intel_XP-64Bit_12.6.45.0	
Others	Microsoft .Net 3.5SP1	
	WindowsInstaller-KB893803-v2-x86.exe	
	XP Patch: USB Keyboard S3 USB20	

Drivers and latest BIOS are available from Viglen FTP site:

**Intel DQ67SW-DQ67OW-DQ67EP:** [http://download.viglen.co.uk/files/Motherboards/DQ67SW\\_DQ67OW\\_DQ67EP](http://download.viglen.co.uk/files/Motherboards/DQ67SW_DQ67OW_DQ67EP)

For BIOS, Drivers and Documentation enquiries please contact Viglen Technical Support Department on [technical@viglen.co.uk](mailto:technical@viglen.co.uk). Remember to include your PC serial number in all correspondence.